

# Eltex® HD5211GA-B

High Density Polyethylene Copolymer

INEOS Olefins & Polymers Europe

## Message:

Eltex® HD5211GA-B is a high-density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for the injection moulding of caps & closures for the packaging of beverages. Thanks to high purity and excellent organoleptic properties, this grade is particularly intended for the packaging in direct contact with beverages.

Typical applications

Caps & closures for the packaging of still mineral water, aromatized waters and juices

Benefits and Features

Easy processing

Good impact strength

Low warpage

Grade containing slip agent ensuring easy application and opening. Exposure to direct sunlight has to be avoided as the slip agent is light sensitive and its degradation can give off-taste to the beverage.

Excellent, quality controlled organoleptic properties. In order to preserve the excellent organoleptic properties, it is important not to exceed a melt temperature of 250°C during processing.

General Information			
Additive	slip agent		
Features	High purity		
	Low warpage		
	Copolymer		
	smoothness		
	Impact resistance, good		
	Workability, good		
	Good sensory characteristics		
	Narrow molecular weight distribution		
Uses	Shield		
	Shell		
Agency Ratings	European food contact, not rated		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	6.00	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2/1B
Tensile Stress (Yield)	26.0	MPa	ISO 527-2/1B

Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	3.5	kJ/m <sup>2</sup>	ISO 179
Additional Information			

The value listed as Density ASTM D1183, was tested in accordance with ASTM D1872. The value listed as Eniro. Stress Crack Res. ASTM D1693, was tested in accordance with INEOS test methods. Organoleptic Properties, INEOS methods: OK

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